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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/665,126	09/22/2003	Jen-Show Lai		5403
y 7590 11/08/2005		EXAMINER		
Troxell Law Office PLLC			ROBERTSON, JEFFREY	
5205 Leesburg 1	Pike [*]	·		
Suite 1404			ART UNIT	PAPER NUMBER
Falls Church, VA 22041			1712	
			DATE MAIL ED: 11/08/2004	-

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
·	10/665,126	LAI, JEN-SHOW				
Office Action Summary	Examiner	Art Unit				
	Jeffrey B. Robertson	1712				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replace of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 A	August 2005.					
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 2-5 and 8-11 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2-5 and 8-11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claims 2-5, 8, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burzin et al. (U.S. Patent No. 4,101,524) in view of Chiba et al. (U.S. Patent No. 4,380,622).

For claims 8 and 2-5, Burzin teaches the preparation of polyester amides from lactams such as caprolactam, diamines such as hexamethylenediamine, dicarboxlic acids such as adipic acid, and diols such as 1,4-butane diol. Col. 3, line 53 through col. 4, line 5. Burzin does not expressly teach the percentages of the components set forth by applicant. However, in col. 4, lines 14-16, Burzin teaches that these amounts are result effective variables, and therefore the amounts set forth by applicant would have been obvious to one of ordinary skill in the art. A result effective variable is determined according to the desired properties of the resulting composition and would be obvious to one of ordinary skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

For claim 11, in col. 2, lines 37-46, Burzin teaches that the temperature of polymerization is within the range set forth by applicant.

In col. 4, lines 24-26, Burzin teaches the addition of catalysts. However, Burzin does not expressly teach the use of dibutyl tin dilaurate as the catalyst.

Chiba teaches the preparation of polyesteramides. In column 4, lines 32-42, Chiba teaches the use of dibutyl tin dilaurate as a catalyst.

Chiba and Burzin are analogous art in that they both teach the synthesis of polyesteramides. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the tin catalyst of Chiba in the compositions of Burzin. The motivation would have been that the tin catalysts of Chiba are equivalents to the catalysts set forth in Burzin. It is prima facie obvious to substitute equivalents, motivated by a reasonable expectation that the respective species will behave in a

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comparable manner or give comparable results in comparable circumstances. *In re Ruff* 118 USPQ 343, *In re Jezel* 158 USPQ 99; the express suggestion to substitute one equivalent for another need not be present to render the substitution obvious. *In re Font*, 213 USPQ 532.

4. Claims 2-5 and 8-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Timmermann et al. (U.S. Patent No. 5,644,020) in view of Chiba et al. (U.S. Patent No. 4,380,622) and Otani et al. (U.S. Patent No. 4,515,981).

For claims 8 and 2-5, Timmermann teaches biodegradable polyesteramides that are derived from dialcohols such as 1,4-butanediol, dicarboxylic acids such as adipic acid, cyclic lactams such as caprolactam, an diamines such as hexamethylenediamine. Col. 3, lines 15-31. Timmermann does not expressly teach the percentages of the components set forth by applicant. However, these amounts are result effective variables, and therefore the amounts set forth by applicant would have been obvious to one of ordinary skill in the art. A result effective variable is determined according to the desired properties of the resulting composition and would be obvious to one of ordinary skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

For claim 11, in col. 6, lines 1-11, Timmermann teaches that the polymerization takes place within the temperature range set forth by applicant.

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In col. 4, lines 22-34, Timmermann teaches the addition of antioxidants and catalysts. However, Timmermann does not expressly teach the use of dibutyl tin dilaurate as the catalyst or triphenyl phosphate as an oxidant.

For claim 9, Chiba teaches the preparation of polyesteramides. In column 4, lines 32-42, Chiba teaches the use of dibutyl tin dilaurate as a catalyst.

Chiba and Timmermann are analogous art in that they both teach the synthesis of polyesteramides. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the tin catalyst of Chiba in the compositions of Timmermann. The motivation would have been that Timmermann states that any known catalyst may be used. Therefore the tin catalysts of Chiba are equivalents to the catalysts set forth in Timmermann. It is prima facie obvious to substitute equivalents, motivated by a reasonable expectation that the respective species will behave in a comparable manner or give comparable results in comparable circumstances. *In re Ruff* 118 USPQ 343, *In re Jezel* 158 USPQ 99; the express suggestion to substitute one equivalent for another need not be present to render the substitution obvious. *In re Font*, 213 USPQ 532.

For claim 10, Otani teaches polyesteramides that contain antioxidants such as triphenyl phosphate. Col. 3, lines 19-20.

Otani and Timmermann are analogous in that they both teach polyesteramides. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the triphenyl phosphates of Otani in the compositions of Timmermann. The motivation would have been that Timmermann teaches that the genus of antioxidants

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may be added, but does not teach a specific species. One of ordinary skill in the art would have turned to Otani for specific antioxidants used with polyesteramides.

Response to Arguments

5. Although it was indicated that the subject matter of claim 8 was allowable in the previous office action, it is noted that even though the branching agent is specified in claim 8, it is not required to be present as the amount of branching agent is 0-10% by weight. Therefore, the rejections as set forth above have been continued as not requiring the presence of branching agents and as a result, this rejection is non-final.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey B. Robertson whose telephone number is (571) 272-1092. The examiner can normally be reached on Mon-Fri 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P. Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey B. Robertson Primary Examiner Page 7

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JBR